	PHYSICS
1	If during circular motion residential love story of a body becomes double then centripetal force becomes:
Α	double
В	one half
С	Four Times
D	one fourth
2	Under what condition and object will have zero displacement but non zero distance?
Α	linear motion
В	circular motion
С	random motion BBS BS BS F F F F F F F F F F F F F F F
D	oscillation
3	Which one of the following properties is not exhibited by the longitudinal wave?
Α	interference
В	reflection
С	defection
D	Polarization
4	The speed of sound in the ear is 332 M / s. the speed of sound at 22 *c will be:
Α	345.2 M / s
В	340 M/s NUMS NATIONAL
С	350 M/s MDCATTEST
D	330 M/s
5	Astronomers calculate speed of distance stars and galaxies using which of the following phenomena?
Α	beats
В	interference
С	superposition principle
D	Doppler Effect





6	In a ripple tank, 40 ways pass through a certain point in one second. if the wavelength of the weve is 5 cm, then speed of the wave is:
Α	0.5 ms-1
В	1 ms-1
С	1.5 ms-1
D	2 ms-1
7	In which process the entire of heat supplied to the gas is converted to the internal energy of the gas?
Α	Isochoric process
В	isobaric process
С	isothermal process
D	adiabatic process ABBS 60 M PK
8	The internal energy of a system during an isothermal process:
Α	degrees
В	increase
С	becomes zero
30	\$75000000000000000000000000000000000000
D	remain constant
	If the potential at a point which is 1m from a charge is 1 volt, then the potential at a point which is 2m from the same charge will be:
D	If the potential at a point which is 1m from a charge is 1 volt, then the potential at a point which
D 9	If the potential at a point which is 1m from a charge is 1 volt, then the potential at a point which is 2m from the same charge will be:
9 A	If the potential at a point which is 1m from a charge is 1 volt, then the potential at a point which is 2m from the same charge will be:
9 А В	If the potential at a point which is 1m from a charge is 1 volt, then the potential at a point which is 2m from the same charge will be: 2 v 1 v NUMS NATIONAL
9 A B C	If the potential at a point which is 1m from a charge is 1 volt, then the potential at a point which is 2m from the same charge will be: 2 v 1 v NUMS NATIONAL 0.5 v MDCATTEST
9 А В С	If the potential at a point which is 1m from a charge is 1 volt, then the potential at a point which is 2m from the same charge will be: 2 v 1 v NUMS NATIONAL 0.5 v MDCATTEST 3 v
9 A B C D	If the potential at a point which is 1m from a charge is 1 volt, then the potential at a point which is 2m from the same charge will be: 2 v 1 v
9 A B C D	If the potential at a point which is 1m from a charge is 1 volt, then the potential at a point which is 2m from the same charge will be: 2 v 1 v NUMS NATIONAL 0.5 v MDCATTEST 3 v The values of electric intensity will Due to the presence of dielectric medium: increase
D 9 A B C D 10 A B	If the potential at a point which is 1m from a charge is 1 volt, then the potential at a point which is 2m from the same charge will be: 2 v 1 v NUMS NATIONAL 0.5 v The values of electric intensity will Due to the presence of dielectric medium: increase increase exponentially





11	The slope of distance time graph will always be:
Α	negative
В	positive
С	0
D	Maxim
12	At what angle of projection of a projectile the range becomes half of its maximum value?
Α	15*
В	20°
С	30°
D	MBBS.COM.PK
13	If we drop an object, its initial velocity is zero, how far will it fall in time "t"?
Α	9.8 t²
В	4.9 t ²
С	0.49 t²
D	98 t²
14	The Newton-second is unit of:
Α	work
В	power
С	impulse
D	momentum NATIONAL
	MDCAT TEST
15	1.75 m height weight- lifter rises weights with a mass of 50 kg to a height of 0.5 m above his head. How much work is being done by him? (g=10ms-²)
Α	2125 J
В	2500 J write Answer is 250 Option is not available
С	100 J
D	50 J
	of of
16	What is the speed of 2.0 kg metallic Bob at the mean position of a simple pendulum, when





1

released from its extreme	position 0.5	m height?	(g=10ms-2)
---------------------------	--------------	-----------	------------

- A 3.16 ms-1
- B 10 ms-1
- C 100 ms-1
- D 50 ms-1
- 17 When the speed of your car is halved, by what factor does its kinetic energy decreases?
- A 1/2
- B 1/4
- C 1/8
- D 1/6

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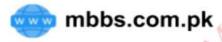
- 18 Which one of the following force is non conservative force?
- A Frictional force
- B Gravitational force
- C electric force
- D elastic spring force
- 19 The Earth rotates on its Axis once a day, suppose, by some process the earth contracts so that its radius is only halfAs large as present, then along the earth will take to complete its rotation?
- A 24 hours
- B 18 hours
- C 6 hours NUMS NATIONAL
- D 12 hours

20 1 Radian is equal to:

- A 571°
- B 57 2°
- C 57 3°
- D 574°
- 21 In translation from grid station, power losses are minimised by:

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	5	1
O,	increasing current decreasing current increasing resistance	7
Α	increasing current	
В	decreasing current	
С	increasing resistance	
D	increasing voltage	
22	The domestic electricity supply has a frequency of:	
Α	150 Hz	
В	100 Hz	
С	50 Hz	
D	25 Hz	
23	PIV stands for: WERC COM DIV	
Α	Positive Inverse voltage	
В	Power integrated voltage	
С	Peak inverse voltage	
D	Peek integrated voltage	
0.4		
24	In full wave rectification, the diodes are used:	
Α	1	
В	2	
С	3	
D	NUMS NATIONAL	
25	The wavelength associated with an electron is of the order of:	
Α	Visible light	
В	X-rays	
С	radio waves	
D	infrared	
26	Which Photon carries the most energy?	

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Blue

violet



0	
C	red
D	green
27	Which one of the following series lies in the ultraviolet region?
Α	Balmer series
В	Pascher series
С	Lyman series
D	Bracket series
28	The main difference between X rays and γ rays is?
Α	frequency
В	wavelength WBBS_COM_PW
С	energy
D	origin
29	There are initially 400 atoms in a radioactive sample, what would be the number of atoms after three half-life?
Α	400
В	200
С	50
D	25
30	While using radiation therapy, cancerous thyroid is treated with radioisotope:
Α	Carbon NOMS NATIONAL
В	235-Uranium
С	Thorium
D	iodine-131
31	In capacitors, energy is stored in the form of:
A	Gravitation energy
В	Kinetic energy
С	Electric intensity
O.	The state of the s
AO	(DIZ





D	Magnetic induction
32	Ohm time's farads is equivalent to:
Α	Time
В	Charge
С	Distance
D	capacitor
33	One-kilowatt hour is commonly termed as one commercial unit of electric energy which is equal to:
Α	3.6 x 10 ⁵ J
В	3.6 x 10 ° J
С	3.6 x 10 ⁴ J
D	3.6 x 10 ³ J
34	When a wire is compressed and its radius become 2R then its resistance will be:
Α	16 R
В	4 R
С	1/16 R
D	1/4 R
35	One of the following is an ohmic device:
Α	filament bulb NUMS NATIONAL
В	Semiconductor diode DCAT TEST
С	transistor
D	copper wire
36	The change in resistance of metallic conductor at temperature below 0 °C is:
Α	Non linear
В	curve
С	linear
0	OZ,
CON	I.PK MDCAT Preparation Portal NUMS Preparation Portal Online Book Store







OF	
D	curvilinear
37	When current are flowing through two long Parallel wires Same direction electric field between them:
Α .	strong
В	weak
С	Remains same
D	infinite
38	Magnetic flux is maximum when angle between magnetic field and vector area is:
А	0°
В	90° MBBS_COM_PK
С	180°
D	45°
39	Transformer is a device which steps up or Steps down the input:
А	Current
В	Voltage
С	energy
D	power
	CHEMISTRY
40	If a Stationary bar magnet is placed near a coil at rest maximum lines of force pass through the coil ,the Galvanometer shows:
Α	Maximum current MDCAT TEST
В	minimum current
С	No current
D	intermediate value of current
41	Alkyl halides involving _C_X Bond breakage and_C _NU Bond formation simultaneously would follow the mechanism:
Α	SN1
В	SN ₂
Q	T DIZ
UN	I.PK MDCAT Preparation Portal NUMS Preparation Portal Online Book Store

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9

C E1

D E2

42 Secondary alkyl halide is:

H — C — CI



CH₃CI

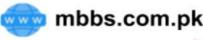
- 43 R-X reaction with alcohols forms:
- A R-OH
- B ROR
- C R-X-OH

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10

- D RH
- 44 IUPAC name of is:
- A 2-methyl-3-hexanone
- B 2,6- Dimethyl cyclohexanone
- C 3 methyl cyclohexanone
- D 4- methyl-3-hexanone
- 45 Phenol is known as:
- A Carpolic Acid
- B Carbonylic Acid
- C Carbolic Acid
- D Carboxylic Acid
- 46 Phenol is more acidic than alcohols because of the following reason:
- A Delocalisation of negative charge in the OH group
- B Delocalisation of positive charge on the carbon atom in ring
- C Delocalisation of negative charge in the ring
- D Delocalisation of positive charge in the OH group
- 47 The common name of following aldehyde is:

NUMS | NATIONAL MDCATTEST CI— CH2 — CH — CHO

A a---Methyl--Ý--Chlore6H5O(CH3)2

Propionaldehyde

B β --Chloro-- $\hat{\mathbf{Y}}$ --methyl

Propionaldehyde

C β--Chloro--λ--methyl Propionaldehyde

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- D β--methyl--λ--chloro Propionaldehyde
- 48 Which of the following regent is used to separate purify carbonyl and non-carbonyl compounds:
- A HCN
- B BrMgCH3
- C NaHSO3
- D H₂O

Α

D

49 Secondary alcohol is the product of reduction of which carbonyl compound?

CH3-C-HABBS.COM.PK

O | | CH3 - C - CH3

C O | H - C - H

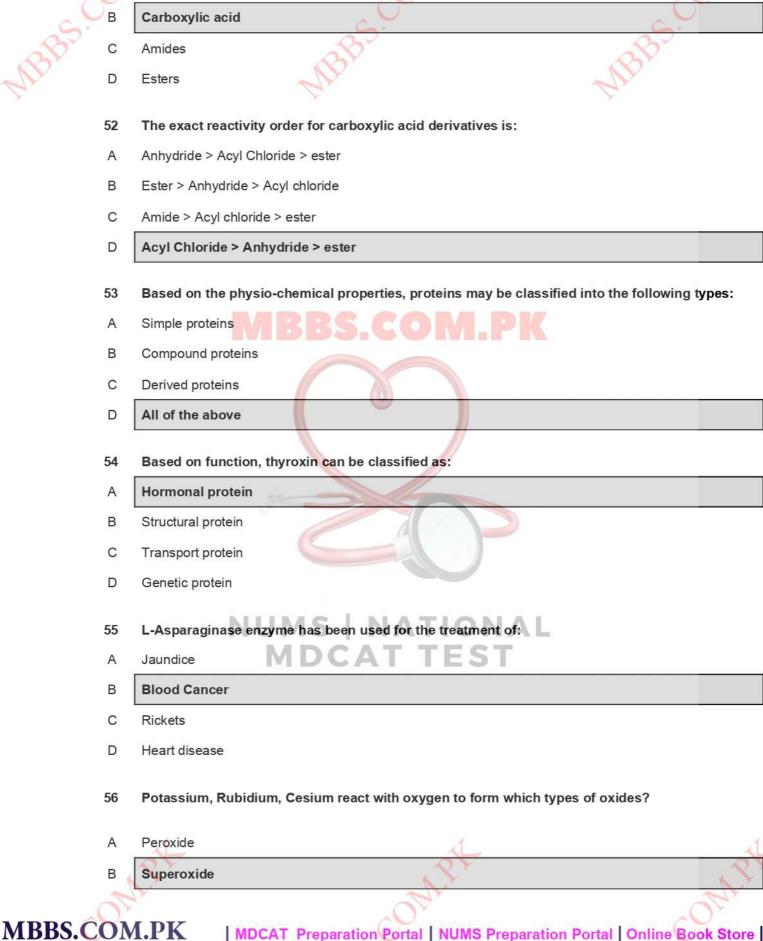
CH3CH2-CHMS | NATIONAL MDCATTEST

- 50 Which of the following is the strongest acid?
- A Propanic acid
- B Fluoroethanoic acid
- C Trichloroethanoic acid
- D Nitro Ethanoic acid
- 51 Hydrolysis of acyl chloride results in the formation of:
- A Acid anhydride

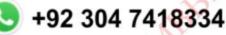
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()'	~O'	·
C	Suboxide	
D	Normal Oxide	
57	Magnesium reacts with Nitrogen to form:	
Α	Mg2N2	-
В	Mg3N2	
С	MgN2	
D	MgN	
58	Densities of alkali metals are low due to:	
Α	Weak intermolecular forces	77
В	Large atomic volume	
С	Smaller size	
D	ns1 Configuration	
59	In 3rd series of transition elements, paramagnetic behaviour is maximum for Mn+2 and:	
Α	Cr3+	
В	Ti3+	
С	V3+	
D	Zn+2	
60	Electronic configuration of chromium (Proton number 24) is:	
Α	[Ar]3d44S2 NUMS NATIONAL	
В	[Ar]3d54s2 MDCAT TEST	
С	[Ar]3d54S1	
D	[Ar]3d64S2	
61	The transition element which does not show variable valency os;	
Α	Cu	
В	Sc	1
С	Zh	C.Y.
	M DK I MDCAT Drawaystian Dartel NUMS Drawaystian Dartel Online Back	
	/I I'M I MDCAT Propagation Partal MIMS Propagation Partal Online Peak	Store

MBBS.C





- D Cr
- 62 Select the organic compound which belongs to Arene family:
- A CH2 = CH2
- B CH3 0- CH3
- C CH3 -- NH2
- D C6H6
- 63 The type of isomerism existing in a compound of molecular formula C2H60 is:
- A Functional group
- B Position
- C Chain
- D Metamerism
- 64 Which of the following compounds show geometric isomersim?

CH3



C H

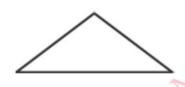
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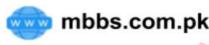


- 65 Generic formula of cycloalkane is?
- A CnH2 n+2
- B CnH2n
- C CnH2n+ 1
- D CnHzn-2
- 66 Electrophile in sulphonation of benzene is:
- A HSO₄-
- B H₂SO₄
- C S03
- D HS03-
- 67 The following has IUPAC name of:

- A . 2,3 tetramethyl butane DCATTEST
- B 2,2,3,,3-tetramethyl pentane
- C 3,3,4,4 tetramethyl butane
- D 3,4- bis (dimethyl butane).
- 68 Acetophenone can be formed by which of the following reaction of benzene?
- A Alkylation
- B Acylation
- C Halogenation

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- D Nitration
- 69 In alkanes, each Carbon has hybridization:
- A sp3
- B sp
- C sp2
- D dsp
- 70 When CH3 is attached with the benzene ring, it makes the ring:
- A Good electrophile
- B Good nucleophile
- C Resonance hybrid
- D Extraordinary stable
- 71 Which of the following reaction has greater Kp than Kc (Kp> Kc)?

2NOCL
$$\implies$$
 2NO + CL2

- 72 The equation N2g+ 3H2g = 2NH3, represents:
- A Contact process

D

- B Haber's process
- C Solvay process
- D Avogadro's law
- 73 The unit of the rate constant is the same as that of the rate of reaction in:
- A Zero order reaction
- B First order reaction

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1	17
O,	$c_{O_{\lambda}}$
С	Second order reaction
D	Third order reaction
74	The study of rates of chemical reactions and the factors that affect the rates of chemical reactions is known as:
Α	Thermodynamics
В	Stoichiometry
С	Electrochemistry
D	Chemical Kinetics
75	For the reaction A(g) —> products, When the concentration of A(g) 'doubles, the rate of reaction increases four folds, which means it is:
Α	Negative order reaction
В	First order reaction
С	Zero order reaction
D	Second order reaction
76	For which of the following order of the reaction, rate of reaction in inversely proportional to the concentration reaction?
Α	1 st order reaction
В	2 nd order reaction
С	Negative order of reaction
D	Zero order of reaction NUMS NATIONAL
77	The thermal energy at constant pressure is called:
Α	Enthalpy
В	Internal energy
С	Heat capacity

D Work done

78 Born-Haber cycle is used to determine the lattice energies of:

A Molecular solids

B Metallic solids

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ОС	lonic solids	20
D	Covalent solids	BB
79	One calorie is equal to:	Dr
Α	4.18 KJ	
В	4.18	
С	0.418 KJ mol	
D	0.418 KJ	
80	The oxidation state of 'S' in the (S ₂ O ₃)-2 is:	
Α	+4	
В	+6 MBBS.COM.PK	
С	-2	
D	+2	
		,
81	The common oxidation number of halogens is:	
Α	-1	
В	+1	
С	-2	
D	0	
82	During oxidation process, oxidation number of an element:	
Α	Decreases NOMS NATIONAL	
В	Increases	
С	Remains constant	
D	Both A&B	
83	Which of the following has the height value of electronegativity?	
Α	1	
В	Br	A
С	CI	1
0	· OF	O.





D	F
	B ²
84	Which of the following hybrid orbitals has maximum 'S' -character?>
Α	Sp3 – hybrid orbital
В	Sp2 – hybrid orbital
С	Sp – hybrid orbital
D	Dsp2 – hybrid orbital
85	The first ionization energy is maximum for:
A	Na
В	Mg MBBS-COM-PK
С	Al
D	K,
86	The efficiency of chemical reaction cay be expressed as:
Α	Theoretical yield
В	Actual yield
С	%yield
D	Maximum yield
87	In a vessel, 10g N2, 10g H and 10g O2 are present. Which one will have least number of atoms?
Α	LI2
В	NUMS NATIONAL
С	O2 MDCAT TEST
D	Both H2 & N2
88	The empirical formula of Glucose C6H12O6 is:
Α	C6H12O16
В	СНО
С	CH2O
D	CH2O2
0	The state of the s





Ox	OF
89	The relationship between quantum number n and I is:
Α	N = 1-1
В	I = n-2
С	I = n-1
D	N = 1-2
90	Quantum number values for '2p' orbitals are:
Α	N=2, I=1
В	N=1, I=2
С	N=1, I=0
D	N=2, I=0 MBBS.COM.PK
91	Which pair has 1 electron in it's 's' orbital?
Α	Li, Fe
В	Na & Cr
С	K & Mn
D	H & He
92	Which of the following has the lowest e/m ratio?
Α	Li+2
В	H+1
С	He NUMS NATIONAL
D	Be MDCAT TEST
93	According to the general gas equation density of an ideal gas depends upon:
Α	Pressure
В	Temperature
С	Molar mass of the gas
D	All of the above

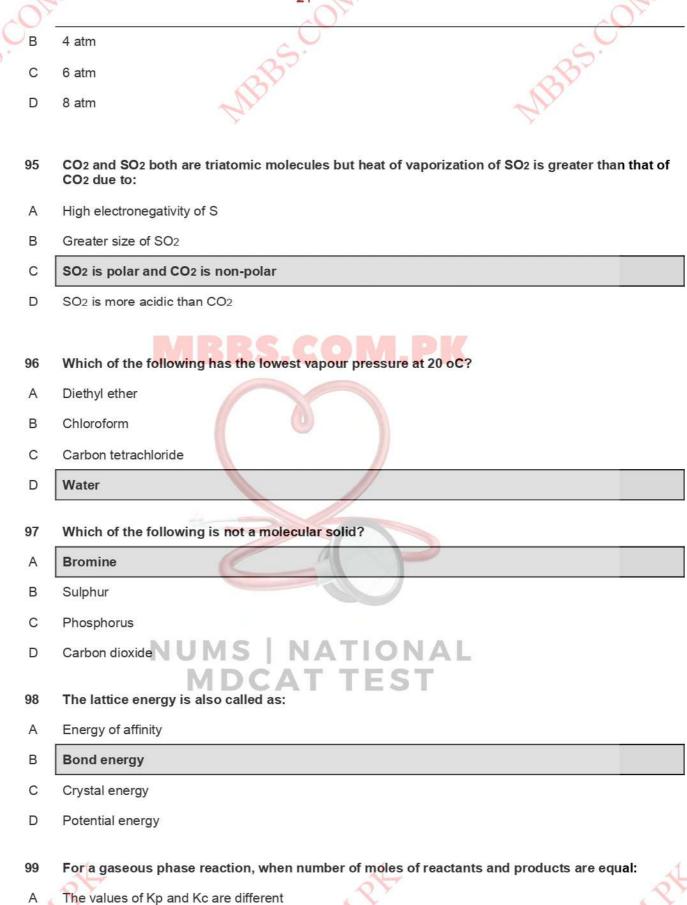
94 The actual volume of gas molecules is considered negligible at following pressures:

A 2 atm

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1	22
Ox	CO_{λ}
В	The values of Kp is greater than Kc
С	The values of Kc is greater than Kp
D	The values of Kp and KC are the same
100	Purification of table salt (NaCl) by passing HCl gas through its saturated aqueous solution is an example of:
Α	Law of mass action
В	Hess's law
С	Common ion effect
D	Henry's law
101	We prefer fruits sweets
Α	То
В	On
С	Over
D	From
102	Choose the correct spelling
Α	Exantuated
В	Axantuated
С	Accenchuated
D	Accentuated NOMS NATIONAL MDCAT TEST
103	Choose the correct spelling
Α	Cotioned

B Cautioned

C Causchuned

D Coschuned

104 Choose the correct spelling

A Eccentric

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34 🦸

В	Eccentrac
С	Akcantric
D	Accentric
105	Choose the correct spelling
Α	Dafinite
В	Defanite
С	Dafanite
D	Definite
106	The Headmaster to speed to you
Α	Wants MBBS.COM.PK
В	Is wanting
С	Was wanting
D	Want
107	Choose the correct option: Knowledge and wisdom no time for connection
Α	Has
В	Have
С	Had
D	Are
108	Identify the errors and choose the correct option: I hope this letters finds in the best of your spirits
Α	I hope this letter will find you in good of high spirits
В	I hope this letter finds you in best of your spirit
С	I hope letter finds you in the best of spirits
D	I hope the letter found you in greatest of spirite
109	Identify the errors and choose the correct option:
Α	Gulliver travel was written by swift
В	Gulliver travels was written to swift
0	





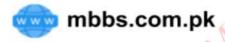
	1	
<u>_</u>	C	Gulliver's travels was written by swift
BB	D	Gulliver's travel was written by swift
Ar	110	Fill in the blank with the appropriate article as required. Umbrella is of no avail against a thunderstorm
	Α	The
	В	A
	С	An
	D	No article required
	111	Choose the correct sentence
	Α	I wish I have been a millionaire
	В	I wish I am being a millionaire
	С	I wish I were a millionaire
	D	I wish I was millionaire
	112	Pick the correct option
	Α	No start is brighter than the moon
	В	No star is more bright than the moon
	С	No star is brighter then the moon
	D	No star is brighter than moon
	113	Choose the correctly structured sentence.
	Α	Had he lived in England he would miss his family
	В	Had he lived in England, he would have missed his family
	С	Had he lives in England he had missed his family
	D	Had he live in England he will missed his family
	114	She always carried an umbrella. The sentence indicatestense.
	Α	Present tense
	В	Past simple
	С	Past perfect
	0	OLY .
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- D Present perfect
- 115 Ahmed___ me for a long time
- A Know
- B Have known
- C Knows
- D Knew
- 116 Pick the correct option: his first inning consists of four 6s and three 4s
- A His first inning's consists of four 6 and three 4
- B His first innings consist of four 6's and three 4's
- C His first innings consist of four 6's and three 4's
- D His first inning's consist of four 6's and three 4's
- 117 Choose the correctly punctuated sentence:
- A What a fall was there, my countrymen! Long live the king!
- B What a fall was there! My countrymen. Long live the King!
- C What a fall was there, my countrymen, Long live the king.
- D What a fall was there, my countrymen, Long live the king
- 118 Choose the correct option:
- A He and I was playing
- B He and I were playing M S NATIONAL
- C He and I were being playing
- D He and I was being playing
- 119 Choose the correct option:
- A Every one of the prisons are full
- B Every one of the prisons had full
- C Every one of the prisons have full
- D Every one of the prisons is full





- 120 Not only the parents but also their son for interview
- A Has called
- B Have called
- C Have been called
- D Has been called

BIOLOGY

- 121 When the temperature of the body surrounding rises, baby responds by
- A Vasoconstriction
- B Vasodilation
- C Shivering
- D Raising body hairs
- 122 The excretion of hypertonic urine in humans is associated best with the
- A Glomerular capsule
- B Proximal convoluted tubule
- C Loop of henle
- D Distal convoluted tubule
- 123 In humans, the temperature regulation control conter is located in
- A Kidneys
- B Brain MDCAT TEST
- C Lungs
- D Liver
- 124 As an excretory organ, liver
- A Detoxifies many chemical poisons
- B Produces ammonia for excretion by the kidneys
- C Produces urine and uric nitrogen of amino acids
- D All of the above

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125	The active uptake of sodium in the ascending limb or thick loop of henle is promoted by the action of
Α	Aldosterone
В	Thyroxine
С	ADH
D	Cortisone
126	Which of the following muscles are considered as 'Voluntary Muscles'?
Α	Smooth muscles
В	Cardiac muscles
С	Skeletal muscles
D	Glandular muscles
127	Which one of the following 'myoenic' types of muscle?
Α	Glandular muscles
В	Cardiac muscles
С	Skeletal muscles
D	Smooth muscles
128	What do we call the cell surface membrane of a muscle fiber?
Α	Sarcolemma
В	Plasma membrane
С	Sarcoplasm MDCATTEST
D	Myofibrils
129	Which of the following neurotransmitters function, both as neurotransmitter and hormones, decreasing our perception of pain?
Α	Epinephrine
В	Serotonin
С	Dopamine
D	Endorphins
7	The Maria

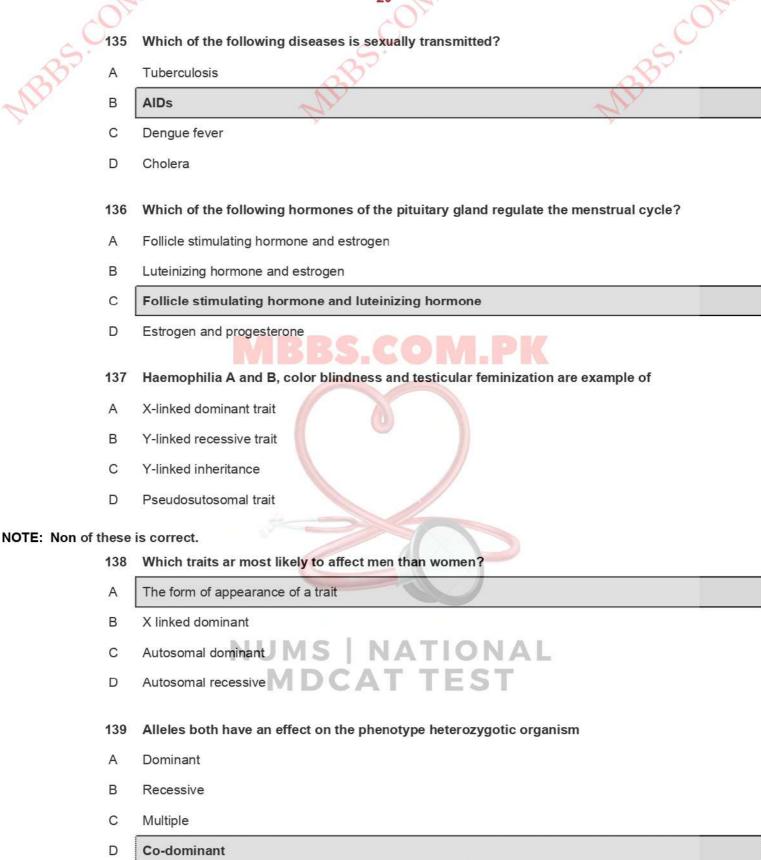




130	Which body function is controlled through a positive feedback mechanism?
Α	Labor contractions
В	Body temperature
С	insulin production
D	Thyroxine release
131	Which of the following is common to all neurons?
Α	A cell which contains a nucleus
^` В	A thick myelin sheath
С	Presence of node of Ranvier
D	Presence of Schwann cells
132	Neurons are cells adopted for the rapid transmission of electrical impulses. To do this, they have
. 1	long thin process called:
Α	Axons
В	Dendrites
С	Myelin sheath
D	Schwann cells
133	is a junction between two neurons or between a motor neuron and a muscle cell
Α	Impulse
В	Synapse NIIIMS NATIONAL
С	Axon
D	Cleft MDCAT TEST
134	Which of the following represents the changes that occur in the ovary and the uterus approximately every 28 days involving evolution with the breakdown and loss of the lining of the
	uterus
Α	Ovulation
В	Menstrual cycle
С	Uterine cycle
D	Embryo formation
07	Mr. Chr.
CI	CDIZ







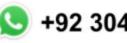
140 When both the allele of a genes are same, the organism is said to be:

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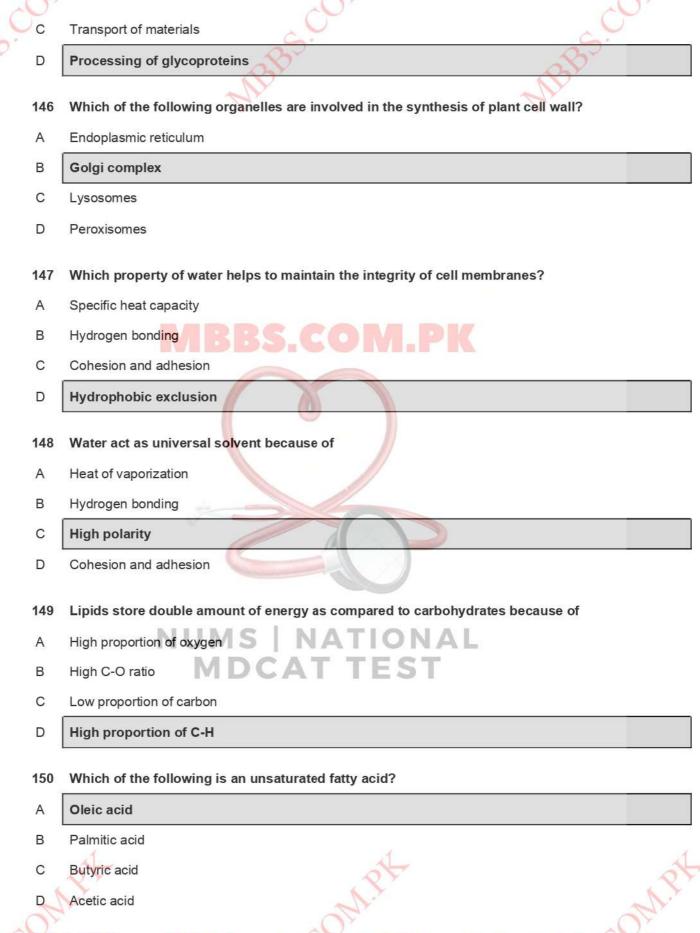




1) >	$\sim 0^{\circ}$) >
	Α	Heterozygous	
	В	Genotype	
	С	Homozygous	
	D	Phenotype	
	141	In which type of cell. Cell wall is not present?	
	Α	Plant cells	
	В	Fungal cells	
	С	Bacterial cells	
	D	Liver cells	
	142	70S size ribosomes are found in the cells of	
	Α	Algae	
	В	Protozoans	
	С	Fungi	
	D	Bacteria	
	143	According to the fluid mosaic model of cell membrane, which zone is embedded inside?	
	Α	Hydrophobic	
	В	Globular	
	С	Hydrophilic	
	D	Filamentous NUMS NATIONAL	
	144	The membrane separating the vacuole from cytoplasm is called	
	Α	Cristae	
	В	Cisternae	
	С	Tonoplast	
	D	Vacuolar membrane	
	145	Select the one which is not a function of smooth endoplasmic reticulum (SER)?	
	Α	Metabolism of lipids	0
	В	Transmission of impulses	M.

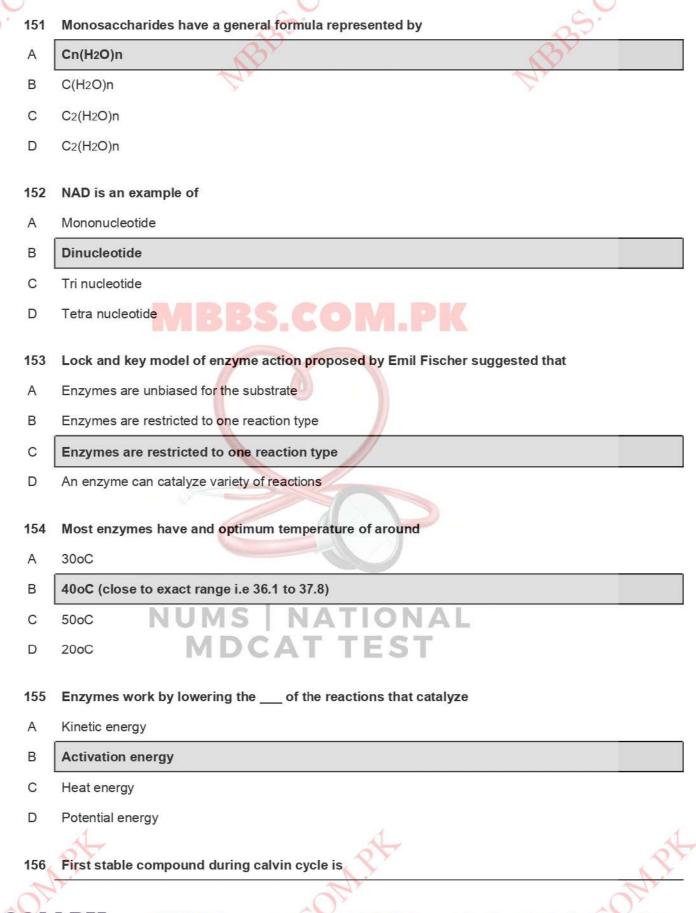
















A	3-phosphoglycerate
В	Glyceraldehyde 3-phosphatse
С	1,3 bisphosphoglyceratae
D	Ribulose biphosphate
157	What is the function of ribulose?
Α	Intermediate in photosynthesis
В	Respirator fuel
С	Intermediate in cellular respiration
D	Component of DNA and RNA
450	
158	Which of the following processes does not need pyruvic acid as a substrate?
Α	Alcohol fermentation
В	Calvin cycle
С	Aerobic respiration
D	Lactic acid fermentation
159	Which of the following is a copper containing protein in electron transport chain?
Α	Plastoquinone
В	Cytochrome-C
С	Plastocyanin
D	Ferredoxin NUMS NATIONAL
160	In electron transport chain, ATP synthesis takes place when electron moves from
A	Primary electron acceptor (PEA) to plastoquinone
В	Plastoquinone (Pq) to cytochromes
С	Cytochromes to plastocyanin
D	Plastocyanin (Pc) to photosystem 1 (PS-I)
ni.	
161	"law of independent assortment" states
Α	The each pair of alleles assort independent of other pairs of alleles during gamete formation
В	That allele for each pair of contrasting trait have unequal probability to assort with the alleles of other
10)	$^{\circ}O_{\lambda}$







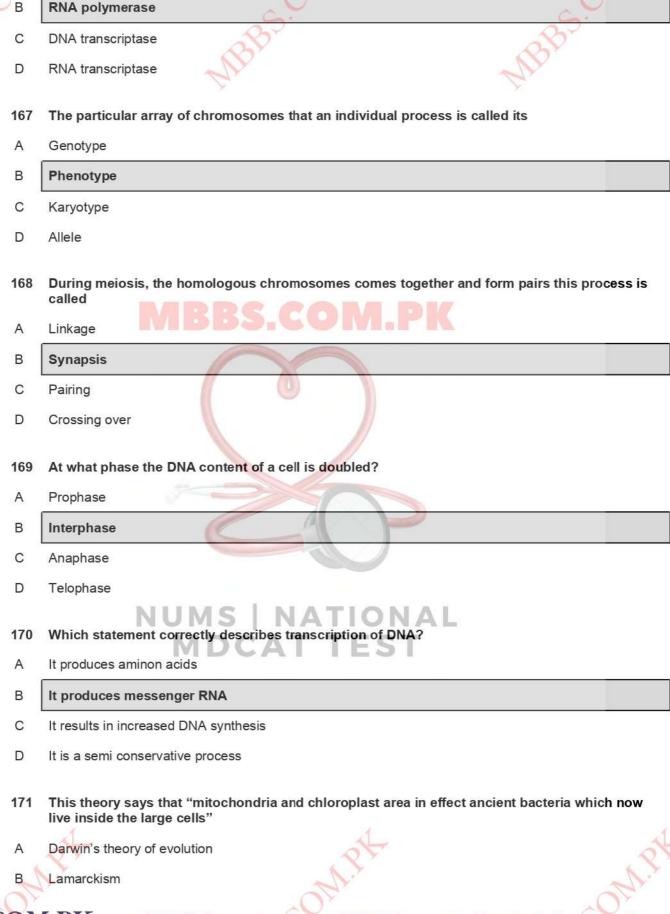
pairs

- C That that coexisting alleles for each trait segregate (separate) from each other at meiosis so that each gamete receives only one of the two alleles
- D That pertain to inheritance of single trait (monohybrid cross)
- 162 Phenotype is
- A The genetic complement ie the genes in an individual for a particular trait
- B Partner of gene pair
- C The form of appearance of a trait
- D The position of a gene on the chromosome
- 163 In complete dominance
- A Different alleles of a gene are both expressed in heterozygous condition
- B One alleles (R) is completely dominant over the other (r) and the presence of recessive allele is functionally hidden the heterozygote (Rr) has the same sound phenotype (RR) heterozygote
- C The phenotype of the heterozygote is intermediate between phenotypes of the homozygotes
- D Gene mutation may produce many different alleles of a gene
- 164 Which one of the following is found in both messenger RNA and DNA of a mammalian cell?
- A Double helical structure
- B Ribose sugar
- C Thymine
- D Sugar- phosphate backbone
- 165 The cells in our body are all genetically identical apart from the:
- A Somatic cells
- B Reproductive cells
- C Muscle fibers
- D White blood cells
- 166 Transcription is the process in which an RNA copy of the DNA sequence and coding the gene is produced with help of an enzyme called
- A DNA polymerases

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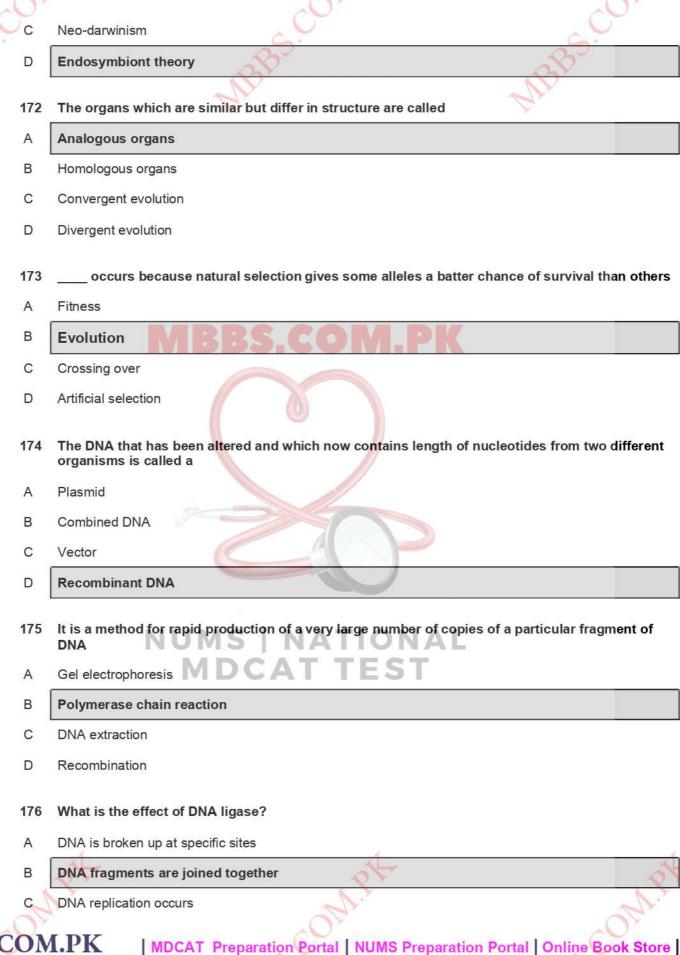




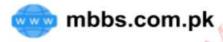












	~0'
D	DNA transcription occurs
177	Which of the following is the components/ tools of recombinant DNA technology?
Α	Gene of interest
В	Molecular scissors
С	Molecular glue and expression system
D	All of the above
178	Gel electrophoresis is a technique
Α	Employed by forensic scientists to assist in the identification of the individuals by their respective type of DNA
В	Collect all the genes found in one complete set of chromosomes
С	Is a technique to separate different size fragment of charge bearing polymers (proteins, RNA or DNA)
D	Grows single cells of a group of cells in a glass ware on artificial medium under aseptic conditions
179	Transgenic organisms
Α	Have a foreigh gene inserted into them
В	Have an important role in the large scale production of medicinal products
С	Are considered beneficial to humans
D	All of the above
180	Which of the following is not necessary for PCR to occur?
Α	date NUMS NATIONAL
В	primers MDCAT TEST
С	DNA fragments

C DIVA Tragments

181 The end product of glycolysis in acrobic respiration is

A Ethanol and carbon dioxide

Ribonucleotides

B Lactate

D

- C Pyruvate
- D Acetyl CoA

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all a	
182	Which of the following is not related enveloped virus?
Α	They survive for a short time
В	Their envelop is sensitive to sunlight
С	They are tolerant to antidotes
D	Envelop is derived from host
183	Numerous opportunistic diseases might attack a person suffering from which of the following diseases?
Α	Measles
В	Influenza
С	Hepatitis A
D	AIDS NIBBS.COM.PK
184	The complete, mature and infection virus particle is known as
Α	Venome
В	Genome
С	Virion
D	Capsid
185	Which of the following is not TRUE about Human Immunodeficiency virus (HIV)?
Α	It is retrovirus
В	It is surrounded by an envelop
С	It does not cause AIDS
D	It causes the deficiency of the human immune system
106	Salant a mathed which cause the evidation of constituent of a hasterial call
186	Select a method which cause the oxidation of constituent of a bacterial cell
Α	Steam
В	Filtration
С	Dry heat
D	Radiation
187	Which of the following is TRUE about the structure of a typical bacterium?
137	Which of the following is Thou about the structure of a typical pacterium:



0	39 77
A	It has a cell wall It has cytoplasm
В	It has cytoplasm
С	It has genetic material
D	All of the above
188	Red algae do not contribute towards
Α	Making coral reefs
В	Forming limestone deposits
С	Making fertilizers
D	Forming chalk deposits
189	Which of the following is true about amoeba?
Α	They havae flagella
В	They are multicellular
С	They do not cause any disease in humans
D	They move by forming specialized cytoplasmic projections called pseudopodia
190	The directional movement toward or away from the stimulus is called
Α	Tropism
В	Orientation
С	Taxis
D	Non orientation NUMS NATIONAL
191	Photophosphorylation takes place in the of the chloroplasts
Α	Stroma
В	Granum
С	Inner membrane
D	Outer membrane

Snake

Frog

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Select an amniote from the following

10	$\sim 0^{\gamma}$
C	Parrot
D	Crocodile
193	In roots the apoplast pathway of water is disrupted when water reaches
Α	Plasmodesmata
В	Cortex
С	Endodermis
D	Pith
194	Regarding structure of human heart chordae tendinea are present in
Α	Atria
В	Pulmonary valve PRSCONDO
С	Ventricles
D	Aortic valve
195	The only vein in human body carrying oxygenated blood is
Α	Femoral
В	Pulmonary
С	Renal
D	Iliac
196	The cells which play very important in developing immunity are
Α	Monocytes NUMS NATIONAL
В	Neutrophils MDCATTEST
С	Lymphocytes
D	Thrombocytes
197	Which of the following blood vessels have the highest pressure of blood?
Α	Aorta
В	Pulmonary arteries
С	Pulmonary veins
D	Vena cava
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- Autoimmune disease act at the principle of
- Self against antigens
- В Antigens against self
- C Self against self
- D Antigens self-destroyed
- 199 In human heart, the left atrium receives
- A The superior Vena Cava
- В The inferior Vena Cava
- C The coronary sinus
- D The four pulmonary veins
- Antibodies are manufactured in 200
- A T lymphocytes
- В Red blood cells
- C **Platelets**
- D **B** Lymphocytes

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